



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION 2

290 BROADWAY

NEW YORK, NY 10007-1866

OCT 23 2014

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

**Article Number: 7005 3110 0000 5967 7377**

Mr. Steven M Zarecki, Director of Public Works  
City of New Brunswick  
Department of Public Works  
78 Bayard Street  
New Brunswick, NJ 08901

Re: **Request for Information**  
**Docket No. CWA-IR-15-003**  
**EPA/NJDEP Sanitary Sewer System Compliance Evaluation Inspection**  
**City of New Brunswick**  
**ICIS/NPDES No. NJP000363**  
**NJDEP ID No. 164169**

Dear Mr. Zarecki:

Please find enclosed a Request for Information (“RFI”) letter, which the U.S. Environmental Protection Agency (“EPA”) Region 2 is issuing to the City of New Brunswick (“New Brunswick”) pursuant to Section 308(a) of the Clean Water Act (“CWA”), 33 U.S.C. §1318(a). The EPA is issuing the RFI letter to require New Brunswick to provide specific information regarding the findings of the enclosed inspection report.

Section 308(a) of the CWA, 33 U.S.C. §1318(a), provides that whenever it is necessary to carry out the objectives of the CWA, including determining whether or not a person/agency is in violation of Section 301 of the CWA, 33 U.S.C. §1311 or carrying out section 402 of the CWA, 33 U.S.C. §1342, the EPA shall require the submission of any information reasonably necessary to make such a determination. Under the authority of Section 308 of the Clean Water Act, EPA may require the submission of information necessary to assess any facility/site and its related appurtenances for carrying out the provisions of the CWA.

On July 9, 2014, EPA along with representatives of the New Jersey Department of Environmental Protection (“NJDEP”) conducted a Sanitary Sewer System Inspection of the New Brunswick collection system. The enclosed inspection report lists potential non-compliance items as well as areas of concern, which are items that should be addressed to improve the operation and maintenance of the collection system. Additionally, the Middlesex County Utilities Authority wastewater treatment plant (“WWTP”), which New Brunswick discharges to, has had exceedances of its New Jersey Pollutant Discharge Elimination System (NPDES) Permit and wet weather bypassing related to high wastewater flows during periods of wet weather.

## **REQUEST FOR INFORMATION**

New Brunswick is hereby required, pursuant to Section 308(a) of the Clean Water Act, 33 U.S.C. §1318(a), to submit the requested information regarding the subject construction site.

1. **Within forty five (45) calendar days** of receipt of this letter, respond to the EPA in writing with the actions (including a schedule) that New Brunswick has taken or will take to address: the potential non-compliance items and areas of concern identified in the enclosed inspection report.
2. **Within ninety (90) calendar days** of receipt of this Request respond to EPA in writing with:
  - a. Reports, from 2011 to Present, from Inflow and Infiltration ("I&I") studies conducted on New Brunswick's collection system or on the collection systems of the upstream municipalities that are connected to New Brunswick's collection system that identify sources of I&I that have not yet been eliminated or addressed. If there were any large scale I&I studies that were conducted prior to 2011 where needed I&I improvements were identified and the I&I removal work is still outstanding than please provide these studies as well.
  - b. Existing plans and cost estimates, schedules, to conduct I&I studies to determine the volume and sources of I&I entering the New Brunswick Collection system along with schedules, plans and mechanisms that New Brunswick has to reduce the volume of I&I from New Brunswick's collection system as well as those of the upstream municipalities connected to New Brunswick's collection system.
  - c. Potential plans and cost estimates, schedules, to conduct additional I&I studies to determine the volume and sources of I&I entering the New Brunswick Collection system along with schedules, plans and mechanisms that New Brunswick has to reduce the volume of I&I from New Brunswick's collection system as well as those of the upstream municipalities connected to New Brunswick's collection system.
  - d. specific targets for the volume of I&I removal per year
  - e. daily flow data, preferably in electronic format for the period 2011 to present for metering of flows from upstream municipalities tributary to the New Brunswick collection system.

## **CERTIFICATION**

Any documents to be submitted by New Brunswick as part of this Request for Information shall be sent by certified mail or its equivalent and shall be signed by an authorized representative of the respective entity (see 40 CFR §122.22), and shall include the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

All information required to be submitted pursuant to this Request for Information shall be sent by certified mail or its equivalent to the following addresses:

Larry Gaugler, NPDES Team Leader  
Water Compliance Branch  
Division of Enforcement and Compliance Assistance  
U.S. Environmental Protection Agency – Region 2  
290 Broadway, 20th Floor  
New York, NY 10007-1866

Marcedius T. Jameson, Director  
Water and Land Use Enforcement  
New Jersey Department of Environmental Protection  
Mail Code 401-04F, 401 East State Street  
P.O. Box 420  
Trenton, NJ 08625-0420

Should you have any questions regarding this request, feel free to have your staff contact Larry Gaugler, NPDES Team Leader at (212) 637-3950.

Sincerely,



Douglas McKenna, Chief  
Water Compliance Branch  
Division of Enforcement and Compliance Assistance

Enclosure

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cc: Marcedius T. Jameson, Director, Water and Land Use Enforcement, NJDEP  
Wolfgang Skacel, Assistant Commissioner, Compliance and Enforcement, NJDEP  
(w/enclosure)  
Thomas S. Guldin, P.E., C.M.E, New Brunswick, City Engineer via email:  
tguldin@cityofnewbrunswick.org  
Greg Schussler, NJDEP via email  
Melissa.Hornsby, NJDEP via email

		United States Environmental Protection Agency Washington, D.C. 20460 <b>Water Compliance Inspection Report</b>		Form Approved. OMB No. 2040-0057	
<b>Section A: National Data System Coding (i.e., PCS)</b>					
Transaction Code		NPDES		yr/mo/day	
		N J P 0 0 0 3 6 3		1 4 0 7 0 9 17	
				Inspection Type	
				18 &	
				Inspector	
				19	
				Fac Type	
				20 1	
Remarks					
2					
66					
Inspection Work Days		Facility Self-Monitoring Evaluation Rating		Reserved	
6 1 69		70		71 72 73 74 7 80	
<b>Section B: Facility Data</b>					
Name and Location of Facility Inspected (for industrial users discharging to POTW, also include POTW name and NPDES permit number)				Entry Time/Date	
City of New Brunswick Civic Center 78 Bayard Street New Brunswick, NJ 08901				10:00 AM 07/09/2014	
				Permit Effective Date	
				Exit Time/Date	
				4:30 PM 07/09/2014	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Mr. Steven M Zarecki, Director of Public Works, City of New Brunswick Department of Public Works, 78 Bayard Street, New Brunswick, NJ 08901 Phone: (732) 745-5104 Thomas S. Guldin, City Engineer (See Info Below)				Other Facility Data	
				NJDEP ID No. 164169	
Name, Address of Responsible Official/Title/Phone and Fax Number(s)					
Mr. Steven M Zarecki, Director of Public Works, City of New Brunswick Department of Public Works, 78 Bayard Street, New Brunswick, NJ 08901 Phone: (732) 745-5104				Contacted	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Section C: Areas Evaluated During Inspection (Check only those areas evaluated)</b>					
<input type="checkbox"/>	Permit	<input type="checkbox"/>	Flow Measurement	<input checked="" type="checkbox"/>	Operations & Maintenance
<input checked="" type="checkbox"/>	Records/Reports	<input type="checkbox"/>	Self-Monitoring Program	<input type="checkbox"/>	CSO/SSO (Sewer Overflow)
<input type="checkbox"/>	Facility Site Review	<input type="checkbox"/>	Compliance Schedules	<input type="checkbox"/>	Sludge Handling/Disposal
<input type="checkbox"/>	Effluent/Receiving Water	<input type="checkbox"/>	Laboratory	<input type="checkbox"/>	Pollution Prevention
				<input type="checkbox"/>	Multimedia
				<input type="checkbox"/>	Storm Water
				<input type="checkbox"/>	Other:
<b>Section D: Summary of Findings/Comments (Attach additional sheets of narrative and checklists as necessary)</b>					
Thomas S. Guldin, P.E., C.M.E, City Engineer, Civic Square II, 25 Kirkpatrick St. P.O. Box 269, New Brunswick NJ 08901, (732) 245-5056 (ph), 908 239-7181 (Cell) Email: tguldin@cityofnewbrunswick.org  See attached compliance evaluation inspection report for inspection findings.					
Name(s) and Signature(s) of Inspector(s)			Agency/Office/Phone and Fax Numbers		Date
 Murray Lantner, P.E. Env. Engineer			EPA/DECA-WCB/(212) 637-3976 FAX: 3953		10/21/14
Signature of Management Q/A Reviewer			Agency/Office/Phone and Fax Numbers		Date
 Larry Gaugler, P.E. NPDES Team Leader			EPA/DECAWCB (212) 637-3950, Fax 212 637-3953		10/23/14

# INSTRUCTIONS

## Section A: National Data System Coding (i.e., PCS)

**Column 1: Transaction Code:** Use N, C, or D for New, Change, or Delete. All inspections will be *new* unless there is an error in the data entered.

**Columns 3-11: NPDES Permit No.** Enter the facility's NPDES permit number - third character in permit number indicates permit type for U=unpermitted, G=general permit, etc.. (Use the Remarks columns to record the State permit number, if necessary.)

**Columns 12-17: Inspection Date.** Insert the date entry was made into the facility. Use the year/month/day format (e.g., 04/10/01 = October 01, 2004).

**Column 18: Inspection Type\*.** Use one of the codes listed below to describe the type of inspection:

A Performance Audit	U IU Inspection with Pretreatment Audit	! Pretreatment Compliance (Oversight)
B Compliance Biomonitoring	X Toxics Inspection	
C Compliance Evaluation (non-sampling)	Z Sludge - Biosolids	@ Follow-up (enforcement)
D Diagnostic	# Combined Sewer Overflow-Sampling	
F Pretreatment (Follow-up)	\$ Combined Sewer Overflow-Non-Sampling	{ Storm Water-Construction-Sampling
G Pretreatment (Audit)	+ Sanitary Sewer Overflow-Sampling	
I Industrial User (IU) Inspection	& Sanitary Sewer Overflow-Non-Sampling	} Storm Water-Construction-Non-Sampling
J Complaints	\ CAFO-Sampling	
M Multimedia	= CAFO-Non-Sampling	: Storm Water-Non-Construction-Sampling
N Spill	2 IU Sampling Inspection	
O Compliance Evaluation (Oversight)	3 IU Non-Sampling Inspection	~ Storm Water-Non-Construction-Non-Sampling
P Pretreatment Compliance Inspection	4 IU Toxics Inspection	< Storm Water-MS4-Sampling
R Reconnaissance	5 IU Sampling Inspection with Pretreatment	
S Compliance Sampling	6 IU Non-Sampling Inspection with Pretreatment	- Storm Water-MS4-Non-Sampling
	7 IU Toxics with Pretreatment	> Storm Water-MS4-Audit

**Column 19: Inspector Code.** Use one of the codes listed below to describe the *lead agency* in the inspection.

A — State (Contractor)	O — Other Inspectors, Federal/EPA (Specify in Remarks columns)
B — EPA (Contractor)	P — Other Inspectors, State (Specify in Remarks columns)
E — Corps of Engineers	R — EPA Regional Inspector
J — Joint EPA/State Inspectors—EPA Lead	S — State Inspector
L — Local Health Department (State)	T — Joint State/EPA Inspectors—State lead
N — NEIC Inspectors	

**Column 20: Facility Type.** Use one of the codes below to describe the facility.

- 1 — Municipal. Publicly Owned Treatment Works (POTWs) with 1987 Standard Industrial Code (SIC) 4952.
- 2 — Industrial. Other than municipal, agricultural, and Federal facilities.
- 3 — Agricultural. Facilities classified with 1987 SIC 0111 to 0971.
- 4 — Federal. Facilities identified as Federal by the EPA Regional Office.
- 5 — Oil & Gas. Facilities classified with 1987 SIC 1311 to 1389.

**Columns 21-66: Remarks.** These columns are reserved for remarks at the discretion of the Region.

**Columns 67-69: Inspection Work Days.** Estimate the total work effort (to the nearest 0.1 work day), up to 99.9 days, that were used to complete the inspection and submit a QA reviewed report of findings. This estimate includes the accumulative effort of all participating inspectors; any effort for laboratory analyses, testing, and remote sensing; and the billed payroll time for travel and pre and post inspection preparation. This estimate does not require detailed documentation.

**Column 70: Facility Evaluation Rating.** Use information gathered during the inspection (regardless of inspection type) to evaluate the quality of the facility self-monitoring program. Grade the program using a scale of 1 to 5 with a score of 5 being used for very reliable self-monitoring programs, 3 being satisfactory, and 1 being used for very unreliable programs.

**Column 71: Biomonitoring Information.** Enter D for static testing. Enter F for flow through testing. Enter N for no biomonitoring.

**Column 72: Quality Assurance Data Inspection.** Enter Q if the inspection was conducted as followup on quality assurance sample results. Enter N otherwise.

**Columns 73-80:** These columns are reserved for regionally defined information.

## Section B: Facility Data

This section is self-explanatory except for "Other Facility Data," which may include new information not in the permit or PCS (e.g., new outfalls, names of receiving waters, new ownership, other updates to the record, SIC/NAICS Codes, Latitude/Longitude).

## Section C: Areas Evaluated During Inspection

Check only those areas evaluated by marking the appropriate box. Use Section D and additional sheets as necessary. Support the findings, as necessary, in a brief narrative report. Use the headings given on the report form (e.g., Permit, Records/Reports) when discussing the areas evaluated during the inspection.


## Section D: Summary of Findings/Comments

Briefly summarize the inspection findings. This summary should abstract the pertinent inspection findings, not replace the narrative report. Reference a list of attachments, such as completed checklists taken from the NPDES Compliance Inspection Manuals and pretreatment guidance documents, including effluent data when sampling has been done. Use extra sheets as necessary.

\*Footnote: In addition to the inspection types listed above under column 18, a state may continue to use the following wet weather and CAFO inspection types until the state is brought into ICIS-NPDES: K: CAFO, V: SSO, Y: CSO, W: Storm Water 9: MS4. States may also use the new wet weather, CAFO and MS4 inspections types shown in column 18 of this form. The EPA regions are required to use the new wet weather, CAFO, and MS4 inspection types for inspections with an inspection date (DTIN) on or after July 1, 2005.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**REGION 2, DECA-WCB**  
20<sup>th</sup> Floor, 290 Broadway, NY, NY 10007

**SANITARY SEWER SYSTEM**  
**COMPLIANCE EVALUATION INSPECTION REPORT**

<b>Compliance Evaluation Inspection:</b> New Brunswick City Sanitary Collection System	
<b>Inspection Date:</b> July 9 <sup>th</sup> , 2014	
<b>Inspection Time:</b> 10:00AM – 4:00 PM	
<b>EPA Inspectors:</b> Murray Lantner, Environmental Engineer, USEPA Region 2, (212) 637-3976  Daniel DAgostino, USEPA Region 2, Clean Water Division, (212) 637- 3805 Nora Boylan, EPA Summer Intern	
<b>NJDEP Inspector:</b> Greg Schussler , NJDEP Central Bureau of Water Compliance & Enforcement, Mail Code 44-03, PO Box 420, Trenton, NJ 08625, (609) 439-9529 cell, (609) 292-3010 office, (609) 292-6450 FAX Greg.Schussler@dep.nj.gov	
<b>On-Site Representatives:</b> Steven M. Zarecki, Director of Public Works, City of New Brunswick, (732) 745-5104; and Thomas S. Guldin, City Engineer, City of New Brunswick, (732) 745-5056	
<b>Site Information:</b>	City Civic Center 78 Bayard Street New Brunswick, NJ 08901  EPA ICIS Number NJP000363 NJDEP ID No. 164169

**I. SUMMARY**

**A. Potential Non Compliance Items**

1. As described in paragraph II.14 Based the City of New Brunswick Sewer Department has experienced five (5) discharged of sanitary sewage or spills in the past five (5) years.

**B. Areas of Concern**

1. As described in paragraph II.6 below two of the four MCUA metering chambers at Parkway and Landing Lane show high levels of I&I (several times increase in flow) during wet weather. Additionally it does not appear that New Brunswick's inter-municipal agreements with North Brunswick, Franklin and Milltown discourage inflow and infiltration. New Brunswick needs to explain how it and its upstream (connected) municipalities are working to reduce Inflow and Infiltration.

2. As described in paragraph II.7 below, the Railroad Ave. and Lyle Brook pump stations are scheduled for upgrades. Additionally, as described in paragraph II.9 below these two stations do not have backup power. Please provide an update on the status of these pump station upgrades and if the upgrades will include backup generators.
3. As described in paragraph II.13 below New Brunswick does not bill its industries based on Chlorine Demand. Chlorine Demand is a parameter that MCUA bills its Participants (e.g. New Brunswick) for. Please explain why New Brunswick doesn't bill its industries for.
4. As described in paragraph II.14 below New Brunswick's Sanitary Sewer Overflow reports do not list the receiving waters where the wastewater was discharged.
5. As described in paragraph II.20, New Brunswick did not have information on basement backup claims readily available. Please provide information on basement backup claims reported/paid out by the Joint Insurance Fund for the period January 2011 to the present.
6. As described in paragraph II.23 the amount of televising work reported in the Collection System Monthly Reports appears to differ from the amount of CCTV work said to have been conducted.
7. As described in paragraph II.24 the number of blockages in New Brunswick's sanitary system in comparison with benchmarks typical for municipalities appears to warrant a more robust collection system cleaning program. Additionally, New Brunswick currently depends on paper daily records to record responses to residential complaints. It would likely be useful for New Brunswick to maintain a database to include location information, cause of blockage in the sanitary sewer main line along with the actions taken to remedy actions in the call database. This will help target areas of the city that need to be cleaned on a routine basis. As described in paragraph III.9 below EPA observed a mainline blockage at New Street and Railroad Ave.
8. As described in paragraph II.27 New Brunswick indicated that it had a problem with residential grease. Please describe New Brunswick's current and planned actions to educate residents in areas where the sewers have a residential grease program as well as New Brunswick's program to clean and/or degrease these problem sewer segments.
9. As described in paragraph II.28 New Brunswick said that it has detected some illicit stormwater connections into its sanitary sewer. New Brunswick should provide a list of illicit stormwater connections that it has identified, but has not yet eliminated.
10. As described in paragraph II.31 it appears that New Brunswick's I&I reports to MCUA are not submitted on a quarterly basis.
11. As described in paragraph III.1, 3 and 6 that ladders in specific manholes were broken or missing.

12. As described in paragraph III.5 there was a dry weather flow through the storm sewer that discharges into Lawrence Brook near the Weston Mills Pump Station. This section also reported that one of the pumps at the Weston Mills PS was out of service, please report on the operational status of the 3 pumps at the Pump Station.

## **II. BACKGROUNDS AND FINDINGS**

### **Collection System:**

1. The purpose of this sanitary sewer system Compliance Evaluation Inspection (CEI) was to assess the adequacy of the system's minimization of Sanitary Sewer Overflow (SSO) discharges, inflow and infiltration, as well as general maintenance of the Sanitary Sewer System. This CEI was conducted as part of the United States Environmental Protection Agency (EPA) nation-wide initiative to make such assessments of satellite separate sewer systems in preventing SSOs.
2. New Brunswick has a satellite separate sanitary sewer system, maintained by the Department of Public Works, tributary to the Middlesex County Utilities Authority (MCUA) Wastewater Treatment Plant (WWTP), NJPDES No. NJ0020141.
3. New Brunswick has a residential population of 55,000 but swells to 250,000 during the day during periods when Rutgers University is in session. The town is approximately 5 square miles.
4. According to Mr. Zarecki, the Director of Public Works for the City of New Brunswick, the sanitary sewer system became a fully separate sanitary system as of 2012, the result of \$5 million repair project. The system was said to be a combined system until the 1990s when sewer separation work was done. The City of New Brunswick's Sanitary Sewer System (SSS) consists of 1,427 manholes and 62.3 miles of sanitary sewers.
5. According to Mr. Zarecki, the SSS consists of both clay and polyvinyl chloride (PVC) piping. Portions of the system were constructed one hundred and forty years ago and the older pipes are clay while the newer piping is PVC. Pipe diameters range from 6' to 48', but a majority are 8". Mr. Guldin, the City Engineer for the City of New Brunswick, provided a map of pipe diameters throughout the city. Mr. Guldin also provided a CD containing PDF map files and a GIS map of the city's system, including the location of sewer mains, manholes, pump stations, pipe diameters and additional information.
6. New Brunswick has entered into intermunicipal agreements with the Borough of Milltown, the Township of Franklin, and the Township of North Brunswick. A portion of New Brunswick's flow as well as the other 3 Municipalities contribute flow to the New Brunswick Landing Lane pump station and the MCUA Landing Lane metering chamber. The intermunicipal agreement with Milltown is dated December 22, 1983; the agreement with Franklin is dated April 15, 1981; and the agreement with North Brunswick is dated March 22, 1984. Area of Concern



- a. North Brunswick transmits sewage flow directly to MCUA via metering chambers on North Brunswick lines, and also transmits sewage flow to New Brunswick under the inter-municipal agreement and then to MCUA. The 1984 agreement anticipated that North Brunswick's Howe Lane Pumping Station would receive an operating permit from NJDEP and that the sewage flow from this pump station would be conveyed directly to MCUA. The agreement does require North Brunswick to pay New Brunswick for a certain calculated (not measured) flow through the Mile Run Interceptor of 290 MG per year, which includes I&I. This calculated volume could be modified if rehabilitation and replacement work is done in the Mile Run Interceptor. Under the 1984 agreement North Brunswick was initially billed \$45,000 just for the I&I into the Mile Run sewer in addition to the costs of transmitting the sewage flow. New Brunswick must update EPA on the status of I&I projects in the Mile Run Interceptor and the current estimates/measurements for annual I&I into this sewer.
- b. Based on the inter-municipal agreement it appears that New Brunswick bills the Township of Franklin a fixed amount that was/is originally based on water usage, Inflow and Infiltration, BOD and TSS. The 1981 agreement lists the fee as \$128,231 or \$36.12 per connection.
- c. The inter-municipal agreement with the Borough of Milltown requires that New Brunswick transmit all flow received from Milltown to MCUA. New Brunswick bills Milltown based upon the volume of drinking water provided to Milltown plus any metering of other water flows from within Milltown by Milltown. It also grants Milltown the ability to meter the sewage flows from Milltown to New Brunswick at specific locations if Milltown so chooses to. The billing is also based on the quality (BOD, TSS, Chlorine Demand concentration) of Milltown's flow. New Brunswick also includes a 20% surcharge to cover costs of transmitting sewage, unaccounted for flow and operations and maintenance. New Brunswick should indicate if Milltown ever installed a flow meter described in Section 3 of the inter-municipal agreement. If Milltown does not have a sewage flow meter than there does not appear to be any fee or penalty associated to Milltown associated with discharging additional I&I (above the 20% already included in Milltown's sewer fee from New Brunswick) to the New Brunswick sanitary sewer. Potentially I&I could lower Milltown's rate since BOD, TSS, and Chlorine Demand concentrations would go down with higher I&I flows from Milltown.

Based on the discussion above and review of the inter-municipal agreements, there does not appear to be a penalty or additional fees to the 3 municipalities that convey sewage to New Brunswick for I&I above the agreed upon, fixed amounts that appear in the inter-municipal agreements. As shown in tables 2, 3 and 4 below, for example in 2011 and 2012 the Landing Lane PS showed large volume and percent differences between wet and dry weather flow which are associated with I&I problems. Additionally the MCUA meters measuring flow from North Brunswick also showed high levels of I&I in 2011 and 2012. During the inspection, New Brunswick attributed high inflow to a Department

of Transportation or Contractor project where manholes and frames Boyd Park which flows to the Parkway metering chamber – Route 18.

**Table 2:** MCUA metering chambers in New Brunswick comparing maximum wet weather/dry weather flow difference in 2011 and 2012

Participant	MCUA Metering Chamber	2012 Max Difference between wet and dry weather flows (MG)	2012 Max Percent Difference for wet weather flows 150% or Greater than dry weather flows (%)	2011 Max Difference between wet and dry weather flows (MG)	2011 Max Percent Difference for wet weather flows 150% or Greater than dry weather flows (%)
New Brunswick	Landing Lane	17.692	329	27.944	707
New Brunswick	Bucc. Towers	0.017	38	0.137	381
New Brunswick	Parkway	4.495	95	9.631	210
North Brunswick	Georges Road	0.071	250	0.152	357
North Brunswick	Livingston Ave.	0.132	480	0.512	1969

**Table 3:** MCUA Metering Chambers - Comparison of average flows during Large Wet Weather Events (90th Percentile of days with Rainfall Event is 0.84") and Average Flow During Dry Weather Days (0.00" Rainfall) for the Period January 2011 to Aug. 2013. This table contains those metering chambers where large wet weather events caused increases in flow of 1.5x dry weather flow or more.

Participant	Connection	Average Flow Dry Weather Days (0.00" Rainfall) (MGD)	Average Flow Large Wet Weather Days (Wet Weather is 90th Percentile Rainfall 0.84") (MGD)	Ratio of Avg. Large Wet Weather Flows/Avg. Dry Weather
New Brunswick	Landing Lane	10.306	22.391	2.17

Additionally review of MCUA flow data for New Brunswick flow meters for 5 quarters from January 2013 to March 2014, provided during the inspection by New Brunswick, indicated that maximum flows during wet weather in certain quarters were 2 or 3 times the average flow rates and 5 times the minimum flow rate at Landing Lane and Parkway. The Landing Lane and Parkway metering chambers do show a large amount of I&I being conveyed to the MCUA WWTP via the MCUA Sayreville Pump Station.

<b>Table 4: Metering Chamber Summary Quarters 1st Quarter 2013 to 1st Quarter 2014</b>						
<b>MCUA Metering Chamber for New Brunswick*</b>	<b>Min (MGD)</b>	<b>Max (MGD)</b>	<b>Average Flow (MGD)</b>	<b>Percent Difference (Max.-Min.)/Min.</b>	<b>Percent Diff (Max.-Avg.)/Avg.</b>	<b>Quarter</b>
Landing Lane	9.4	20.1	12.367	113.8%	62.5%	1st quarter 2013
Parkway	4.0	15.7	5.546	292.5%	183.1%	1st quarter 2013
Landing Lane	8.6	47.024	12.11	446.8%	288.3%	2nd quarter 2013
Parkway	2.7	15.440	5.882	474.0%	162.5%	2nd quarter 2013
Landing Lane	7.688	19.256	9.453	150.5%	103.7%	3rd quarter 2013
Parkway	4.807	8.011	5.251	66.7%	52.6%	3rd quarter 2013
Landing Lane	9.689	36.27	14.355	274.3%	152.7%	1st quarter 2014
Parkway	5.651	13.179	7.694	133.2%	71.3%	1st quarter 2014
*Bucc Towers and Regency Apts. Not, flows were less than 100,000 gpd and relatively stable so were not included in this table						

## **Pump Stations**

7. According to Mr. Guldin, the SSS consists of six (6) pump stations, four (4) of which have been recently upgraded. Both Railroad Avenue Pump Station and Lyle Brook Pump station are currently awaiting funding for upgrade. Mr. Guldin provided a list of the pump stations with their location and description (see Attachment 2). An update on the status of the pump station upgrades at Railroad Ave. and Lyle Brook is needed.
8. According to Mr. Guldin, all six (6) stations are equipped with a high level alarm system monitored by the Supreme Security Systems, Inc. Mr. Guldin provided a record of the alarms. The systems operate 24 hours, seven days a week.
9. According to Mr. Guldin, the Weston Mills and Goodale Circle Pump Stations have their own back-up generators that are tested every Tuesday morning. College Avenue and South Pennington Pump Stations have portable back-up generators that are stored at the Public Works Department. For Railroad Avenue and Lyle Brook Pump Stations there is no backup generator, New Brunswick would set up bypass pumping if needed.

### **Flow Metering and Billing:**

10. A portion of the flows from the City of North Brunswick are monitored at MCUA metering chambers while other portions of the North Brunswick flow are measured by New Brunswick.
11. The City of New Brunswick sanitary sewer connections are billed based on water usage per one hundred (100) cubic feet. An industrial discharger to the New Brunswick Sanitary Sewer, Bristol Meyer Squibb, which discharges 8MG per month, reports groundwater flows, as well as chlorine demand, total suspended solids (TSS), and biochemical oxygen demand (BOD). Mr. Guldin provided a copy of recent billings, as well as attached the corresponding lab reports performed by QC laboratories.
12. In the past two years based on flow billing from MCUA, New Brunswick stated that its flow has decreased from over six (6) billion gallons per year down to four (4 or 4.9) billion gallons per year. New Brunswick representatives explained that for the past two years' original estimates were much higher than the resulting actual bill, leaving the City of New Brunswick with a credit of over one \$1 million dollars from MCUA.
13. New Brunswick's sewer rates for residential/commercial users and its Industries are contained in its ordinance (See Attachment 7). Note that while MCUA bills New Brunswick based on flow, BOD, TSS and Chlorine Demand, MCUA does not bill its industries based on Chlorine Demand. New Brunswick should explain why it doesn't bill its industries for Chlorine Demand.(See Att. 7).

### **SSO Discharges/Spills:**

14. According to Mr. Zarecki and documentation provided at the time of the inspection, the New Brunswick City Sanitary Collection System has experienced five (5) Sanitary Sewer Overflows (SSOs) or spills in the past five (5) years. All SSOs events are recorded in the supervisor's logbook and reported to the NJDEP. The SSOs are summarized in the table below. See Attachment 4 for reports. During Hurricane Sandy, New Brunswick reported that there were no SSO's at any of the pump stations, but there were a couple of streets that were flooded during the storm such as Rt. 18, Joyce Kilmer Ave/Charles St., Reed St. and Howard St. which may have also caused surcharging of sanitary sewers.

**Table 5: Reported Sanitary Sewer Overflows 2009 to June 2014**

<b>Date</b>	<b>Documented Location</b>	<b>Documented Problem</b>	<b>Documented Response</b>	<b>Documented NJDEP Case #</b>
5/11/2009 7:45 AM until 5/12/09 3:30 AM	8" force main line located in the slip pump between Route 1 N Ramp and	Line break – Volume of Overflow nor Receiving water listed.	Pumped some flow to Weston Mills, blocked off catch basin near pump station, broken pipe uncovered and	09-05-11-0933-58

<b>Date</b>	<b>Documented Location</b>	<b>Documented Problem</b>	<b>Documented Response</b>	<b>Documented NJDEP Case #</b>
	Route 18 N Ramp		replaced. Action was delayed due to traffic concerns.	
7/15/2009	Weston Mills Pump Station	Leak in 8" bypass pumping line connected to the force main line. Approximately 750 to 1,000 gallons went to a nearby catch basin tributary to the adjacent Lawrence Brook	Repairs on site 7/16/09. Absorbent booms placed around the catch basin	09-07-15-1555-10
7/14/2011	72 Jersey Avenue	Grease blockage sanitary sewer main caused an SSO. Location relatively close to Mile Run	Flushed main line and removed grease buildup, washed street	1107-14-16-2358
3/31/2014	Jules Lane between Jersey Ave and Home News Row and at behind 777 Jersey Avenue	Sanitary Sewer Overflow at manhole. Flowing into storm inlets. (Location is close to potential receiving water Mile Run). Said that approximately 2,000 to 3,000 gallons of sewage went into nearby catch basins from 3/31 to 4/1/14	New Brunswick, unsuccessfully tried to flush line at various locations through the night. On April 1 <sup>st</sup> , called in contractor, North American Pipeline, and set up a pump around. Broken pipe fixed on April 2, 2014 and additional pipe replaced by April 4, 2014.	14040410938-45
6/10/2014	Weston Mills Pump Station – Burnett Street and Lawrence Brook	Overflow from sanitary sewer manhole just prior to pump station and said that approximately 1,000 gallons overflowed from manhole with some or all of this sewage flow entering Lawrence Brook.	Contractor corrected problem and reset the pumps	140610213210

In each of the bypass reports listed in the above table, New Brunswick failed to identify the receiving water that was impacted by the SSO. Part III.D of New Brunswick's June 2008 SSO

Response Plan (SSORP) requires that the name of the receiving water be listed in the SSO Response Report. A copy of the SSORP and the Report Form is included in Attachment 5.

Mr. Zarecki explained that the NJDEP Response Center did not ask about the receiving waters for the recent spills so that information was not provided. Mr. Zarecki explained the Weston Mills would discharge into Lawrence Brook and Jersey Ave could have possibly discharged into Mile Run.

15. The City of New Brunswick has their own Sanitary Sewer Overflow Response Plan ("SSORP") (Attachment 5). The plan outlines the actions to be taken including dispatching appropriate personnel to investigate the possible overflow, identifying the responsible party/parties, making the required notification to the NJDEP, and providing appropriate service to minimize the effects of the overflow on public health and quality of surface waters.
16. City representatives said that when crews respond to a backup, even if the backup is in a private lateral they will conduct a courtesy flush of the sanitary main line.
17. According to Mr. Zarecki, The City of New Brunswick Sewer Department has identified approximately 15 locations where there are recurring instances of blockages/problems. These areas are flushed either monthly or bi-weekly in order to minimize problems. Mr. Zarecki provided a list of these locations, as well as a weekly work schedule for the sewer department, and sample inspection reports (See Attachment 8).

#### **Residential Complaints / Collection System Insurance:**

18. Mr. Zarecki provided a copy of the Citizen Complaint Procedure document. During the regular work hours of 8AM-3PM residents will call the Department of Public Works main office with a complaint and the office staff will record their information and then inform the Sewer Supervisor. The Sewer Supervisor will respond to the location to determine if the city main line is backed up. The Supervisor will then flush the line whether it's a city problem or the property owner's lateral line. The resident will be contacted to inform them of the findings. During after work hours if the resident contacts the Department of Public Work's office there is a message informing them to contact the police who will then contact the Sewer Supervisor or stand by person who are available twenty-four (24) hours a day.
19. Mr. Zarecki provided the call logs for the past five (5) years that include the date of the complaint and the location. The work orders corresponding with each complaint are documented separately in the Sewer Supervisor's daily report. Mr. Zarecki provided examples of daily reports with responses to complaints.
20. The City of New Brunswick Sewer Department has a collection system Joint Insurance Fund (JIF) with other Municipalities. Mr. Zarecki explained that the Public Works Department does not have records of the claims that were paid out because they are handled by the JIF. When people submit a claim they include bills, photographs, and a

letter which is sent to the city attorney and then to JIF. The claims are organized by name and address and therefore it is difficult to identify SSOs or spill claims unless each file was gone through by name. However, Mr. Zarecki stated the JIF has the information and that he believes it is less than ten (10) claims paid out per year. Please provide EPA with a list of claims paid by the Joint Insurance Fund (address and amount paid out for the period) January 2011 to the Present.

### **Capacity Issues / Collection System Maintenance**

21. Mr. Zarecki explained that they are not aware of any capacity issues within the SSS. He did, however, provide a list of repairs performed recently.
22. According to Mr. Guldin and Mr. Zarecki excessive infiltration was said not to be an issue for the City of New Brunswick Sewer Department. In the past they have experienced very little, if any, infiltration in the area. Although as explained in paragraph 6 and Tables 2, 3, and 4 above there did appear to be significant levels of Inflow and Infiltration measured at MCUA metering chambers for flows from New Brunswick which also includes flow from 3 other municipalities.
23. Mr. Guldin explained how inflow and infiltration was eliminated through the cleaning and televising of lines throughout the city. Mr. Guldin provided a color-coded map outlining the parts of the city that had been recently cleaned and televised starting in 2007. They explained that approximately 14,000 feet of sewer is televised out of their 329,000 foot collection system or about 4.3% per year. This 4.3% does not include the courtesy flushes or the 15 locations (250 foot runs) that are cleaned on a monthly basis. Additionally, according to Mr. Guldin developers of new projects are required to televise the sewer line for one or two manhole reaches to determine the impact that the proposed project would have on the flow in the sewer line. However, review of the Collection System Monthly Reports for the period January 2009 to December 2013 indicates less than 1 mile of televising of sewers during this 5 year period.
24. The Collection System Monthly Reports, summarized in Table 6 below, also shows that for the 5 year period between 2009 and 2013 there were between 73.8 and 109.1 blockages per 100 miles of sewer per year. Which is significantly higher than industry benchmarks and it appears that more frequent cleaning of the collection system is warranted. Basement backup data was not available during the inspection since this information is not easily searched through the New Brunswick Public Works files. However the Joint Insurance Fund would have these records.

**Table 6:** Metrics for Blockages, Cleaning and CCTV, from Collection System Monthly Reports January 2009 to December 2013

<b>Year</b>	<b>Number of Mainline Blockages Per Year</b>	<b>No. of Blockages/100 miles per year (62.3 miles system)</b>	<b>No. of Miles of Sewer Cleaned Per Year</b>	<b>Percentage of System Cleaned in Year</b>	<b>Miles of System Televised</b>
<b>2009</b>	55	88.3	7.6	12.2%	0.4
<b>2010</b>	46	73.8	6.8	10.9%	0.4
<b>2011</b>	68	109.1	6.3	10.1%	0.0
<b>2012</b>	68	109.1	5.6	9.0%	0.0
<b>2013</b>	49	78.7	4.9	7.9%	0.0

- Solely based upon Collection System Monthly Reports

25. The Department of Public works owns two (2) flusher trucks, one of which is over twenty (20) years old that can jet but not vacuum. The other truck is a combination and can both jet and vacuum. Additionally, they have contracts with National Water Main and North American Pipeline to provide additional equipment such as a TV truck when needed.
26. Sewer breaks are documented in Mr. Zarecki's daily log and repairs are bid out to contractors on a two-year contract. Mr. Zarecki provided a sample of a repair bill from a contractor.
27. Neither New Brunswick nor the Middlesex County Health Department was said to have a Fats, Oils, and Grease inspection/enforcement program. The city of New Brunswick, however, promotes the recycling of grease, through its municipal recycling ordinance. Mr. Zarecki explained that grease traps are only inspected initially when a facility is built, but not reinspected. Mr. Zarecki explained that residential grease is an ongoing problem. New Brunswick did not have Standard Operating Procedure for degreasing certain problem areas available, but they said that the supervisor may have that in his protocols. How is New Brunswick handling residential grease/education materials.
28. According to Mr. Zarecki the local code prohibits discharges of stormwater into the sanitary sewer. He said that they were working to look for basement sump pump discharges into the sanitary sewer and go to houses to remove sump pumps, which was said to be part of the reason for New Brunswick's reduction in flow to MCUA from 6BG to 4.9BG per year.



29. Review of the City of New Brunswick's Ordinance Section 13.08.160 prohibits, with certain exceptions, stormwater discharges to its sanitary sewers. The Ordinance, Section 13.08.290 authorizes extraneous flows such as I&I, that are not chargeable to a specific user are charged to all users. The Ordinance, Section 13.08.320 contains penalties of \$100 per day or imprisonment for not more than 30 days for violations.
30. There are currently no NJDEP enforcement orders against New Brunswick related to SSOs.
31. New Brunswick submits I&I Reports to MCUA. MCUA requires quarterly reports, however, New Brunswick's July 7, 2014 submittal was for fourth quarter 2013 as well as the first and second quarter in 2014. New Brunswick should provide the required quarterly report to MCUA in a timely manner. (See Attachment 3). Previous reports in 2013 also contain 2 quarters in one report.

**Municipal Separate Storm Sewer System (MS4):**

32. According to Mr. Guldin the City of New Brunswick has seventy-eight (78) MS4 outfalls that have all been inspected at least three (3) times since the program started. Additionally, he explain that they have found some scouring at the discharge location, but have not seen any illicit discharges from the outfalls.
33. The City of New Brunswick has a supplemental ordinance to prohibit illicit discharges and dumping into its MS4. The fines in the ordinance can be up to \$1,000 for first-time offenses and the fine for the second and subsequent violation ranges between \$1,000 and \$1,250
34. According to Mr. Guldin, 647 catch basins are inspected annually and litter is removed from tops before and after storm events.

**Gathered Information:**

35. At the time of the inspection the City of New Brunswick provided the EPA with a copy of the following:
  - a. Collection System Monthly Reports for the past six (6) years
  - b. Citizen Complain Procedure
  - c. Call logs for the past five (5) years
  - d. Sewer Department Weekly Work Schedule
  - e. Daily Pump Station Inspection Reports
  - f. Sewer Emergency Work Order Form
  - g. 2014 Emergency Contact List for Department of Public Works
  - h. MCUA Meter Flow Data (2013-2014)
  - i. QC Lab Data (2013-2014)
  - j. General Ordinance Section 12.04.340
  - k. City of New Brunswick and Township of Franklin Agreement
  - l. City of New Brunswick and Borough of Milltown Agreement

- m. City of New Brunswick and Township of North Brunswick Agreement
- n. Reports of 5 SSOs
- o. System Sewer Overflow Response Plan
- p. Pump Station Information List
- q. Supreme Security Systems Sample Invoice
- r. Portable Generators Testing Forms
- s. Pump Station Photos
- t. Sample Invoices
- u. Month Industrial Sewer Consumption Reports
- v. Report to Eliminate the Excessive Infiltration and Inflow
- w. City Ordinance 13.08
- x. City Ordinance 13.08 Revisions

### **III. Field Work**

EPA inspected several locations in the field including pump stations and sanitary sewer manholes where there had been past problems such as blockages.

1. 777 Jersey Ave. – the flow in the sanitary sewer at this location was below the bench and there was no surcharging at the time of the inspection. Debris was seen on the 3<sup>rd</sup> rung of the ladder, so there had been surcharging in this line in the past (See Photo DSCN 1254 (“1254”).
2. 130 French Street – (Photo 1255) - The flow in the sanitary sewer was down and running, flowing below the bench. The ladder to access the manhole was broken.
3. Railroad Avenue and Suydan Street – (Photo 1256) slight surcharging in manhole was seen, but this was said to be the normal flow regime, even after cleaning.
4. Joyce Kilmer Ave. and Stratford Place – (Photo 1257) the sanitary sewer was down and running. The ladder was broken and was in need of repair. Some buildup of material seen in the sanitary sewer at this location.
5. Weston Mills Pump Station – The manhole just upstream of the pump station was not surcharged. However there was a Sanitary Sewer Overflow at this location as described in Table 5 above that flowed into the adjacent Lawrence Brook (See Photos 2159 and 2160). In photo 2158 debris was seen on the top rung of the ladder. Additionally, there was dry weather flow in the storm sewer at the location next to the pump station shown in photos 2159 and 2160. New Brunswick must evaluate this dry weather flow and verify whether this is an allowable or illicit non stormwater discharge. New Brunswick representatives said that 1 of the 3 pumps (Pump No. 1) at the station has been out of service since May 2014. However review of the Daily Pump Station Inspection Report from January 9 and 29, 2014 (Attachment 9) as well as 2/11/14, 3/7/14, 3/17/14, 4/9/14, 4/23/14 indicate that only 2 of the 3 pumps at the station were working. Verify the current status of the 3 pumps at this pump station.

6. Gardens at Raritan – Hoffman Blvd. and Chester Circle – The flow in the sanitary sewer was down and running at this location, which has had grease blockages in the past. There was no ladder in manhole at Building No. 5.
7. Albany and Neilsen Street – This is a larger sewer in the system – 24” and the flow in the sewer was down and running, not surcharged.
8. New Street and Kirkpatrick Street – (See Street Sign Photo No. 1261) Large sewer – flow in the sewer was down and running, not surcharged (See Photo No. 1262).
9. New Street at Railroad Ave. – there was a blockage in the line downstream of this manhole and the sanitary sewer was surcharged. As shown in Photos 1263 to 1267, a New Brunswick sewer crew, within an hour, returned with their jet truck and broke the blockage. New Brunswick should conduct routine inspections of this manhole and sanitary sewer to prevent overflows and backups and consider adding the sewer segment on New Street from Railroad Ave. to Joyce Kilmer to its monthly flushing schedule. The current schedule, see Attachment 8, already includes monthly flushing of the segment on New Street from Joyce Kilmer to Drift Street. Additionally since residential grease is a problem in some areas, New Brunswick should work to educate residents of the area.

## **ATTACHMENTS**

1. Photographs
2. List of MCUA Pump Stations
3. 7/7/14 Letter New Brunswick I&I Report to MCUA for Quarters 1 and 2, 2014 and 4<sup>th</sup> Quarter 2013.
4. Attachment 4 – Bypass Reports to NJDEP May 2009 to June 2014.
5. June 2008 Sanitary Sewer Overflow Response Plan
6. January 9, 2007 Sewer Emergency Response Procedure
7. Fee Structure 2012 to 2014.
8. Flushing Schedule (3 pages)
9. 1/9/14 and 1/29/14 Daily Pump Station Inspection Report.

### **ATTACHMENT 1**

DSCN 1254 Manhole at or near 777 Jersey Ave. – Debris on 3<sup>rd</sup> Rung from top on the ladder. Sewer was down and running at time of the inspection.



DSCN 1255 – manhole at 130 French Street, down and running. The ladder is broken.



DSCN1256 Manhole at Railroad Avenue and Suydan Street – 3 pipes flow into 1, slight surcharging seen, but was said to be the normal flow regime at this location. Ladder is broken.



DSCN 2157 Manhole at Joyce Kilmer Ave. and Statford Place - Sanitary sewer not surcharged. Ladder was broken,



DSCN 2158 Manhole at Weston Mills Pump Station (1 photo)



Creek by Weston Mills Pump Station (1 photo)





DSCN 1261 and 1262 - Manhole at Kirkpatrick St. and New St. intersection – sewer is not surcharged, but had a strong flow



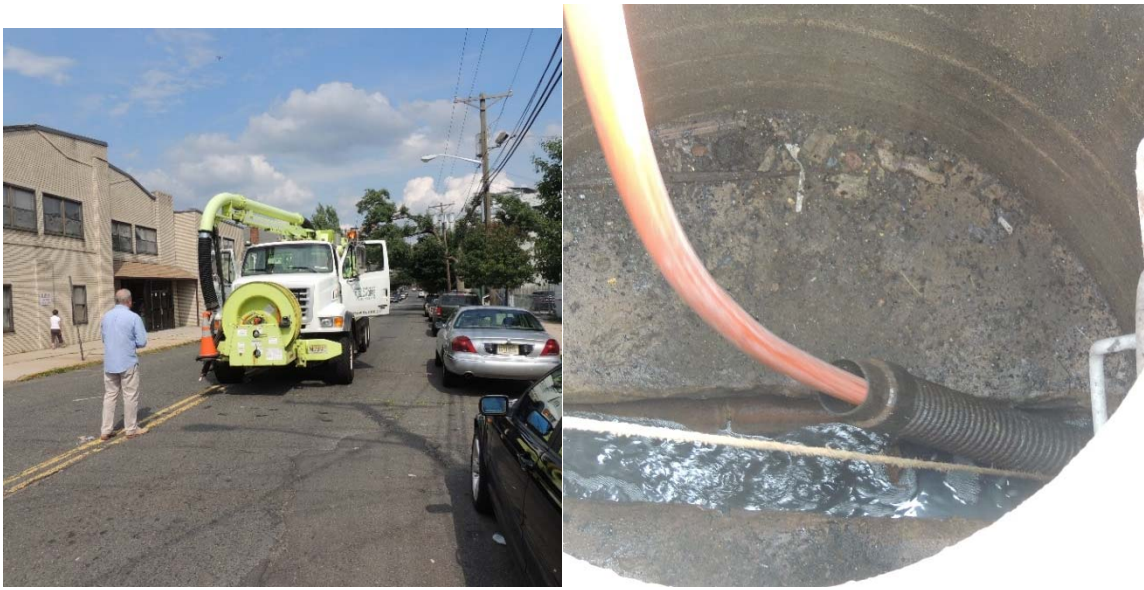
DSCN 1263 and 1264 Manhole at New St. and Railroad Ave. Intersection – There was a blockage in the sanitary sewer line downstream of this manhole and this manhole was surcharged and relatively stagnant.



DSCN 1265 - Manhole on New Street – First Manhole downstream from the surcharged manhole seen above. This is the manhole where the Jet Truck operated from, jetting from the downstream side of the blockage.



Jet truck used to break the blockage in the sewer downstream of the New and Railroad intersection (2 photos) DSCN 1266 and 1267





Attachment II (A)  
2

## PUMP STATION INFORMATION

### 1. PUMP STATION: Railroad Avenue Pump Station

#### Location

Railroad Avenue and Howard Street, New Brunswick

#### Type

Duplex Lift Station – wet well inside of manhole.

#### Description

Two Piranha S submersible grinder pumps 5 h.p., 3450 RPM, 230 volts, 60 cycle, 3 phase design flow 80 gpm – TDH – 45ft., 4 Mercury floats switches.

Number of years operating: 10 years  $\pm$

### 2. PUMP STATION: Lyle Brook Pump Station

Behind New Brunswick Public Library, controls are in the basement of building.

#### Type

Duplex Lift Station – wet well inside of manhole.

#### Description

Two Hydr-o-matic (model SPGL-200 AD-6-2) grinder pumps, 2 h.p., 3450 RPM, 200 volts, 60 cycle, 3 phase design flow, 28 gpm – TDH 37 ft., 4 mercury switch level controls.

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Number of years operating: 10 years  $\pm$

3. **PUMP STATION: Weston Mills Pump Station**

**Location**

Burnett Street and Lawrence Brook

**Type**

3-submersible, non-clog, centrifugal pumps by EMU with squirrel cage induction motor suitable for dry pit installation and variable frequency drive system.

**Description**

31.5 h.p. maximum 1700 RPM, 450 volts, 3 phase, 50 cycle, 4 wire electric service 525 gpm, 118 ft. TDH, maximum speed 1740 RPM type of control/lead/lag/standby, auto alternation.

**Type**

Wall mounted comminuter, muffin monster grinder, model 30005-0018-DR with electric motor and model PC2220 motor controller.

**Description**

18" cutting chamber, 5-11 tooth cam with lugged tungsten carbide buna-N seals, 5 hp/3.7 kw meter at 460 volts, 3 phase 60 cycle TEXP.

**Number of years operating:** 5 years, station upgraded in 2008

4. **PUMP STATION: Goodale Circle**

**Location**

Goodale Circle, New Brunswick

**Type**

Horizontal centrifugal pumps, below ground station and separate wet well.

**Description**

Two EMU sewage pumps with FK motors, 4" FA 102-246, motor 230 volts, 3 phase, 1740 RPM. Altivar 58 TRX adjustable speed drive controllers, Bulldog microprocessor based pump level set point controller.

**New system :** 4 years

**5. PUMP STATION: College Avenue**

**Location**

College Avenue and George Street

**Type**

Motor – Submersible non-clog pump and squirrel cage motor ABS, Model AFP 1049.5 M75/AD  
(2units)

**Description**

10.1 h.p./ 1700 RPM, 230 volts, 60 cycle, 3 phase, 260 gpm TDH - 55ft.

Grinder - Franklin Miller Taskmaster 8500, Model TMB 8508 3 h.p., 60 RPM, 230 volts, 3 phase,  
submersible explosion proof motor, 320 gpm max.

**Number of years in operation:** 75 years, station upgraded in 2011

**6. PUMP STATION: South Pennington**

**Location**

Terminus of South Pennington Road

**Type**

Two submersible grinder type Flygt pumps, Model MP 3127 LT, impallor 216.

**Description**

3430 RPM, 230 volts, single phase, 148 gpm vs. 73.6ft, 9 h.p.

**Number of years in operation:** 10 years +, upgrade 2013

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Attachment 3

**THE CITY OF NEW BRUNSWICK**  
**CIVIC SQUARE BUILDING - 2ND FLOOR**  
**25 KIRKPATRICK STREET, NEW BRUNSWICK, NJ 08901-2112**

Mailing Address:  
City Hall  
78 Bayard Street  
New Brunswick, NJ 08901

DEPARTMENT OF ENGINEERING  
732 745-5056  
732 565-7531 (Fax)  
732 745-5017 (TT)

July 7, 2014

Mr. Kevin Aiello  
Middlesex County Utilities Authority  
P.O. Box 461  
Sayreville, NJ 08872

Re: I & I Report Update  
City of New Brunswick  
2013 – 4<sup>th</sup> Quarter  
2014 – 1<sup>st</sup> and 2<sup>nd</sup> Quarters

Dear Mr. Aiello:

The following is an update on the activity taken recently by the City of New Brunswick to eliminate the excessive infiltration and inflow (I & I) in the City's sanitary sewer system:

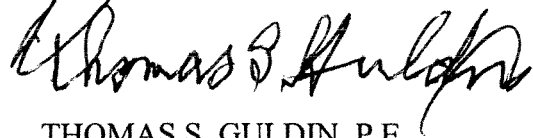
1. The Engineering Department continues to require site plan applicants to clean and televise sewer mains abutting their property and immediately downstream from their proposed tie-ins. This will allow the City to locate major sources of I/I and take corrective action.
2. Manhole frames and covers that allow inflow due to openings and leaks are being replaced as part of ongoing roadway improvement projects. Construction will commence shortly on Suydam Street and Hamilton Street and another forty-six (46) units will be replaced.
3. The City Sewer Department has initiated and continues to perform a program whereby manhole frames and covers are being inspected and replaced as required.
4. Water main breaks continue to be repaired. Typically at each break, the water seeps down in the ground and enters the sanitary sewer. Line breaks were repaired namely at Sandford, Jersey, How, Remsen, Welton, Baldwin, Hale, Lee, Delavan, Talmadge, Somerset, Tunison, Wilcox, Bowser, Longfield, and College Avenue.
5. An engineering consultant has been retained to prepare plans and specs for the replacement of about 1,500 LF of gravity sewer on Seaman, Sanford, Wilcox, Plum, Lafayette, Huntington, College and other's that was found to be defective as part of our recent pipe cleaning and TV inspection work.

Kevin Aiello  
July 7, 2014  
Page 2

5. We have retained a consultant to prepare plans and specs to remove and relocate a sewer line which is located within a stream culvert on Charles Street. The design work is nearing completion.
6. We are preparing an RFP to retain an engineering consultant to have sewer pipes (49,500 LF± ) cleaned, TV inspected, and the results evaluated for needed repairs.
7. Sewer main repairs/replacements have been performed on Lee Avenue, College Avenue, Wilcox Road, Jersey Avenue, and Tunison Road.

If you have any questions regarding this matter, please contact this office.

Very truly yours,  
CITY OF NEW BRUNSWICK

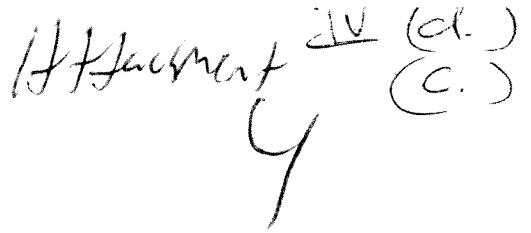


THOMAS S. GULDIN, P.E.  
City Engineer

TSG:kc

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cc: Honorable James M. Cahill, Mayor  
Thomas A. Loughlin, 3<sup>rd</sup>, City Administrator  
Steven Zarecki, Public Works Director



CITY HALL • 78 BAYARD STREET • NEW BRUNSWICK, N.J. 08903

STEVEN M. ZARECKI  
DIRECTOR OF PUBLIC WORKS

- on Thursday, June 10, 2014 at 8:30 AM the department was notified of a high water alarm at the Weston Mills Station
- crew on site at 9:00 AM
- one pump was out of service
- two remaining pumps were off
- crew reset pumps
- at 12:30 PM the two pumps shut down they are air bound
- minor overflow through manhole cover near pump station
- crew sets up hay bales and booms around manhole on nearby catch basin
- contractor is contacted will be on site around 4:00 PM
- 4:00 PM contractor on site corrects problem resets pumps
- overflow terminated
- crew cleans up site at 4:30 PM – 6:30 PM
- estimated overflow from manhole is 1000 gallons
- incident reported to NJDEP hotline by S. Zarecki

If you should have any questions regarding this matter, I can be contacted at 732 745-5104.

Sincerely,

A handwritten signature in black ink, appearing to be 'SMZ', written over a horizontal line.

Steven M. Zarecki  
Director of Public Works

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SMZ:br



IV (a.)

## THE CITY OF NEW BRUNSWICK

CITY HALL • 78 BAYARD STREET • NEW BRUNSWICK, N.J. 08903

DEPARTMENT OF PUBLIC WORKS  
(732) 745-5105

STEVEN M. ZARECKI  
DIRECTOR OF PUBLIC WORKS

**April 9, 2014**

**Mr. Greg Schussler**  
**Principal Environmental Specialist**  
**NJDEP**  
**Bureau of Water Compliance Enforcement**  
**P.O. Box 407**  
**Trenton, New Jersey 08625**

**Re: NJDEP Case No. 1404010938-45**  
**777 Jersey Avenue**  
**New Brunswick, New Jersey 08901**

**Dear Mr. Schussler:**

The following is a summary of actions taken by the New Brunswick Department of Public Works to re-mediate the overflow reported in the above referenced case:

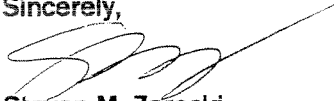
- On Monday, March 31, 2014 the department was notified of a sewer backup at a manhole on Jules Lane between Jersey Avenue and Home News Row
- A crew and Supervisor was dispatched to the location and began an investigation on the line to determine the location of the blockage
- During the investigation the crew discovered that the line was full and another manhole in the parking lot behind 777 Jersey Avenue was overflowing
- The crew began flushing the sewer line at various locations trying to free up the blockage
- Bales of hay were set around two inlets that the overflows were entering
- Crews continued to flush throughout the night and were unable to break through the blockage
  
- On Tuesday, April 1, 2014 at 8:00am the department contacted North American Pipeline to contract with them to provide a more powerful jetter machine. North American Pipeline was on site at 10:00am.
- Department set up a bypass pumping system at this time 10:00am with a 3" pump
- New Brunswick Department of Public Works contacted N.J.D.E.P. at 9:40am to report the overflow and action being taken



- North American Pipeline flushed the line until approximately 2:00pm and could not break through the blockage
- At approximately 1:00pm B & W Construction Co. of New Jersey was contacted to excavate the pipe where the blockage is located
- B & W Contractor supervisor on site at 2:30pm
- B & W Contractor crew on site at 4:00pm to begin excavating and setting up a bypass system using a 6" pump
- Overflow from manholes is terminated at 11:00pm
- On Wednesday, April 2, 2014 a 12' section of the 15" sanitary sewer pipe is replaced by 4:00am
- It is determined that an additional 50' of pipe must be replaced due to the partial collapse of pipe
- By pass pumping will continue until the repair is completed
- B & W will replace this section of pipe on Thursday, April 3, 2014 to Friday, April 4, 2014
- On Friday, April 4, 2014 the repair is completed at 4:00pm
- Approximately 2000-3000 gals of sewage went into the nearby catch basins from 3/31/14 to 4/1/14

If you should have any questions regarding this matter, I can be contacted at 732 745-5104.

Sincerely,



Steven M. Zarecki  
Director of Public Works

SMZ:br



## THE CITY OF NEW BRUNSWICK

CITY HALL • 78 BAYARD STREET • NEW BRUNSWICK, N.J. 08903

DEPARTMENT OF PUBLIC WORKS  
(732) 745-5105

STEVEN M. ZARECKI  
DIRECTOR OF PUBLIC WORKS

July 22, 2009

Mr. Greg Schussler  
Principal Environmental Specialist  
NJDEP  
Bureau of Water Compliance Enforcement  
P.O. Box 407  
Trenton N.J. 08625

**Re: NJDEP Case No. 09-07-15-1555-10**

Dear Mr. Schussler:

The following is a summary of the actions taken by the New Brunswick Sewer Utility to remediate the overflow reported in the above referenced case:

- On Wednesday, July 15, 2009 at approximately 10:45am, my office was notified of a potential leak in the 8" sanitary force main line in the driveway of the Weston Mills Pump Station
- After an investigation of the site, it was determined that the leak was coming from an 8" bypass line that was connected to the 8" force main line
- The City Engineer was on site to determine procedure for repair
- At approximately 12:00pm, the City Contractor was contacted by the Department to the site and arrived at 2:30pm
- An evaluation was conducted at that site and a recommended repair was approved by the Director of Public Works at 3:30pm
- The contractor ordered the necessary parts and scheduled the repair for 7:00pm Thursday, July 16, 2009
- The NJDEP hotline was contacted at 4:00pm by the Director of Public Works
- Assigned Case No. 09-07-15-1555-10

Greg Schussler, page 2

- Repairs on site began at 7:00pm, 7/16/09
- Leak in pipe was repaired at 12:00pm
- Plugs were placed in both ends of the pipe by 3:00pm
- Line is abandoned in place
- Contractor cleaned and left site by 5:30pm, 7/16/09
- Approximately 750–1000 gallons of sewage overflow went into a nearby catch basin during this time period
- Absorbent booms were placed around the inlet and work area during this emergency

If you should have any questions or need further assistance regarding this matter, please feel free to contact me at the following number, (732) 745-5104.

Sincerely,



Steven M. Zarecki  
Director of Public Works

SMZ:mp



*File*

## THE CITY OF NEW BRUNSWICK

CITY HALL • 78 BAYARD STREET • NEW BRUNSWICK, N.J. 08903

DEPARTMENT OF PUBLIC WORKS  
(732) 745-5105

STEVEN M. ZARECKI  
DIRECTOR OF PUBLIC WORKS

May 15, 2009

Mr. Greg Schussler  
Principal Environmental Specialist  
NJDEP  
Bureau of Water Compliance Enforcement  
P.O. Box 407  
Trenton, New Jersey 08625

Re: NJDEP Case # 09-05-11-0933-58

Dear Mr. Schussler,

The following is a summary of the actions taken by the New Brunswick Sewer Utility to remediate the overflow reported in the above referenced case:

- On Monday, May 11, 2009 at approximately 7:45 am the New Brunswick Sewer Utility Supervisor notified the Public Works Director of a potential Sanitary Sewer line break in the City's 8' force main line located in the slip pump between the Route 1 North Ramp and Route 18 North Ramp.
- Sewer Utility Supervisor was on site with representatives from the Water Utility and NJDOT.
- Ramp was closed to traffic at that time.
- Public Works Director was on site at 8 am and coordinated the takeover of the road closure from the NJDOT.
- City Contractor was contracted by Assist. Supt. at 8 am and to scene at 10:30 am.
- NJDEP was notified by Public Works Director of the sewer line break at 9:30am.
- Assigned case #09-05-11-0933-58.
- On site meeting was held with all involved parties and it was agreed that the repair would be started at 7:30 pm, after the evening rush hour. The reason for the delay was there were some concerns that the entire jughandle might have to be closed which would cause a traffic back up throughout the area.

G. Schussler, page 2

- At 2:45 pm the Public Works Director meet with G. Schussler of the NJDEP to inspect site and Lawrence Brook area.
- NJDEP requested that the City implement the following; the Sewer Utility will pump off some of the flow into the Weston Mills pump station with it's sewer flusher until the repair begins, the Sewer Utility will block off the catch basin near pump station.
- The slip ramp remained closed throughout the day.
- The sewer overflow was continuous throughout the day.
- At 3:35 pm the Public Works Director contacted Lt. J.J. Miller of the New Brunswick Police Department to make arrangements for a police officer to be on site at 7:00 pm.
- 7:00 pm City Contractor begins repair.
- Broke pipe (10' force main line) is uncovered at 12:30 am (5/12/09).
- Repair is completed at 3:30am.
- The repair pump station is shutdown for 1 hour to allow installation of new section of pipe.
- Roadway repair continues to 6:30am.
- Roadway paved between 7:30 am – 9:00 am.
- Area cleaned and roadway reopened at 10:00 am.

If you should have any further questions regard this issue, please feel free to contact me. I can be reached at the following number, 732-745-5704.

Sincerely,



Steven M. Zarecki  
Director of Public Works

SMZ:mp



## THE CITY OF NEW BRUNSWICK

CITY HALL • 78 BAYARD STREET • NEW BRUNSWICK, N.J. 08903

DEPARTMENT OF PUBLIC WORKS  
(732) 745-5105

STEVEN M. ZARECKI  
DIRECTOR OF PUBLIC WORKS

July 22, 2011

Kimberly Barrett  
Public Health Investigator  
Middlesex County Environmental Health Division  
71 Jersey Avenue  
New Brunswick, New Jersey 08901

Re: N.J.D.E.P. Case Number 1107-14-16-2358  
72 Jersey Avenue  
New Brunswick, New Jersey 08901

Dear Ms. Barrett,

The New Brunswick Department of Public Works took the following remedial actions pertaining to the sanitary sewer discharge at 72 Jersey Avenue on July 14, 2011:

- at approximately 5:00pm Public Works personnel responded to a call from the New Brunswick Inspections office regarding a sanitary sewer overflow at 72 Jersey Avenue. The crew flushed the main sanitary sewer line on Jersey Avenue and removed a blockage which was caused by a grease buildup in the sewer line
- the residual sewage on the roadway was washed down by the New Brunswick Fire Department
- the area was cleaned at approximately 6:15pm
- on July 15, 2011 at 12:00pm the Public Works Department re-flushed the main sanitary sewer
- at 2:00pm the Public Works crew then spread an absorbent on the remaining puddles of water from the prior day's washing
- at approximately 3:00pm the crew removed the absorbent from the curb line and street where accessible
- on July 18, 2011 at approximately 1:00pm a Public Works crew removed the remaining absorbent from the site

If you should have any additional questions regarding this matter, please contact me at 732 745-5104.

Sincerely,

  
Steve M. Zarecki  
Director of Public Works

Smz:BR

Office copy  
IV (a,b)  
Attachment 5  
**City of New Brunswick**

**Middlesex County**

**New Jersey**



# **Sanitary Sewer Overflow Response Plan**

---

**Department of Public Works**

**Steven M. Zarecki, Director**

**June 2008**

## **I. PURPOSE**

The City of New Brunswick has structured this Sanitary Sewer Overflow Response Plan (SSORP) to protect the health and safety of the public by addressing sanitary sewer overflows promptly and correctly. The City's SSORP is in compliance with the New Jersey Department of Environmental Protection (NJDEP) regulations NJAC 7:14A-6.10.

## **II. GENERAL**

The SSORP outlines appropriate actions to be undertaken by the City upon notification of a possible sanitary sewage overflow from its sanitary sewer system. The City shall dispatch the appropriate personnel to investigate the possible overflow, identify the responsible party / parties, make the required notification to the NJDEP, and provide appropriate service to minimize the effects of the overflow on public health and quality of surface waters.

Definition: Sanitary sewer overflows (SSOs) are un-permitted discharges of raw sewage from sanitary sewer systems. SSOs typically include release of raw sewage out of manholes, failures of pumping stations and onto city streets, property and into streams, etc. or into basements due to failure of the City sanitary sewer system.

### **A. Objectives**

The primary objectives of the SSORP are to:

- Protect public health, safety and the environment
- Satisfy the requirements of regulatory agencies and waste discharge permits which address procedures for managing SSOs

---

Additional objectives of the SSORP are to:

- Provide appropriate customer service
- Protect the sewer collection system pipes, manholes, pumping stations and appurtenances
- Protect property



## **B. Organization of Plan**

The key elements of the SSORP are addressed individually as follows:

Section I	Purpose
Section II	General
Section III	Overflow Response Procedure
Section IV	Regulatory Agency Notification Procedure
Section V	Maintenance and Distribution of SSORP

## **III. OVERFLOW RESPONSE PROCEDURE**

The SSORP presents a strategy for the City to mobilize personnel, materials, tools and equipment to correct or repair any condition that may cause or contribute to an un-permitted discharge from the City's sanitary system. A wide range of potential system failures is considered by the plan. Being prepared to respond to system failures could lessen the effect of overflows to surface waters, land, or buildings.

### **A. Receipt of Information Regarding an SSO**

City employees or the general public may detect an overflow. The City is primarily responsible for receiving notification of possible SSOs. The City is then responsible for forwarding the possible overflow information to the Director of the DPW and Sanitary Sewer System Licensed Operator for response.

The emergency response shall be available 24 hours per day, 365 days of the year.

---

1. The person at the City receiving the call (e.g. DPW, Department of Engineering, Police Department, etc) will obtain all relevant information available regarding the possible SSO including:

- Date and time of notification
- Specific location and/or address of the possible SSO
- Description of the problem
- Name and contact information of person making the notification

2. Pump station failures are monitored and received by the City. The operator on duty shall convey all information regarding alarms to the DPW to initiate the response.
3. SSOs detected by any DPW personnel in the course of normal duties shall be reported to their supervisor. Dispatched personnel should record all relevant overflow information, as noted in 1 above, and report back to their supervisor. The City shall dispatch additional response personnel, equipment or contracted services as necessary.
4. It is the responsibility of the DPW response personnel to gather all SSO response data and report to their supervisor as soon as possible.
5. An SSO report should be completed by the Director of the DPW within 24 hours of the determination of the responding personnel. The DPW Director and the Sanitary Sewer System Licensed Operator is responsible for reviewing, updating, signing and submitting the final report to NJDEP.

#### **B. Dispatch of Appropriate Personnel to Site of Reported SSO**

Failure of any element of the City's sanitary sewer system that causes or threatens to cause an SSO will trigger a response to isolate and correct the problem. Personnel and equipment shall be available to respond to any reported SSO location.

1. Response crews shall be dispatched to the site of the reported SSO immediately or as soon as possible
2. Upon receipt of a report of an SSO, all response personnel shall identify that they have all the necessary tools and equipment and, if not, shall proceed to the DPW garage to gather required equipment.
3. The response crew supervisor shall report the findings to the DPW Director as soon as possible.
4. The Supervisor shall convey any requests for additional personnel, material, supplies, and equipment to the Director.

5. Photographs may be taken at the discretion of the Director of the DPW or Licensed Operator, of the area of the SSO and the impacted area, allowing for thorough documentation of the nature and extent of the impact. Photographs or video footage are to be forwarded with the report.
6. Upon arrival at the scene of a reported SSO, should a suspicious substance (e.g., oil sheen, foamy residue, etc.) be found on the ground surface, or should a suspicious odor (e.g., gasoline) not common to the sewer system be detected, the foreman should contact the City Fire Department for guidance before taking further action. Upon arrival of the Fire Department, DPW personnel shall take direction from the commanding fire officer. Only when the commanding fire officer determines it is safe and appropriate for the DPW members to proceed can containment, clean-up, and corrective activities be performed in accordance with the SSORP.
7. Remember that vehicle engines, portable pumps, or open flames (e.g., cigarette lighters) can provide the ignition for an explosion or fire should flammable vapors or fluids be present at the site. Maintain a safe distance and observe caution until and after assistance arrives.
8. The DPW Director and/or Licensed Operator shall conduct a follow up visit of the overflow site, if possible, to ensure the provisions of the SSORP and other directives were properly followed.

### **C. Overflow Correction, Containment, and Clean-Up**

#### **1. Responsibilities of Response Personnel upon Arrival**

It is the responsibility of the first personnel who arrive at the site of an SSO to protect the health and safety of the public by mitigating the impact of the overflow to the extent possible. Should the ~~overflow not be the responsibility of the City, but there is imminent danger to public health, public~~ or private property, or to the waters of the U. S., then prudent action should be taken until the responsible party assumes control and provides remedial actions.

Upon arrival at an SSO the response personnel should do the following:

- Contact Supervisor and/or DPW Director Immediately
- Determine the cause of the SSO
- Identify and request, as necessary, additional resources to correct the overflow and / or to determine its cause

- Determine if private property is impacted and try to determine and notify the owner
- As soon as possible, but in any case no later than two hours after being made aware of the SSO, a responsible person such as the Sewer System Licensed Operator, Supervisor or the Director of Public Works, shall make a telephone report to the New Jersey Department of Environmental Protection: 1-877-WARNDEP (1-877-927-6337). Note: Record the case number supplied by the NJDEP operator on the SSO report.
- Obtain additional and appropriate personnel, materials, supplies that can be dispatched to minimize the impact of the overflow

## 2. Initial Measures for Containment

Initiate measures to contain the SSO, thereby minimizing impact to public health or the environment.

## 3. Additional Measures under Potentially Prolonged Overflow Conditions

In the event of a prolonged sewer line blockage or a sewer line collapse, a determination should be made to set up a portable by-pass pumping operation around the obstruction.

- Appropriate measures shall be taken to effectively handle the sewage flow, if required. Both Police and Fire Department shall be contacted.
- Continuous or periodic monitoring shall be implemented as required
- Regulatory agency issues shall be addressed in conjunction with emergency repairs

## 4. Cleanup

Sewer overflow sites are to be promptly cleaned to the highest degree possible. No readily identifiable residue is to remain in the area of the SSO.

- The SSO site is to be secured to prevent access to the site by the public until the site has been *thoroughly* cleaned.
- Where practical, the area is to be thoroughly flushed and cleaned of any sewage or wash-down water. Solids and debris are to be transported for proper disposal.
- Where appropriate, such as basement backups due to failure of the City Sewer System, overflows on private property or where public safety is a concern, the overflow site is to be disinfected, and ponds formed by the SSO will be pumped dry and the residue will be

disposed of properly. Disinfection of small areas using a spray bottle of chlorine bleach or for larger areas lime could be used. Do not disinfect with large amounts of granular chlorine or other massive use of disinfectants that may enter the state waterways. The property owner shall hire a cleanup firm for cleanups in areas such as private residents and basements.

#### **D. Sanitary Sewer Overflow Response Report**

The Director of Public Works shall complete a sanitary sewer overflow report, which should include the following:

- Date, time and location of SSO
- Details on how SSO was reported
- Time of report to NJDEP Hotline, and NJDEP case number
- Names of response personnel
- Details of the SSO, including:
  - Duration
  - Estimated volume
  - Where the wastewater discharged; in particular, whether any wastewater discharged to any water course, either directly or via the storm sewer system
  - Apparent cause of the SSO
- Remedial actions taken, including
  - Cleanup method(s)
  - Equipment and supplies used
  - Any necessary by-pass
  - Any emergency repair, with details
  - Whether cleanup was completed
- Follow-up action to be taken
  - Continued cleanup
  - Investigation into cause(s) of the SSO
- Photos if available

A Sanitary Sewer Overflow Response Report Form is attached at the end of this SSORP. The form shall be completed by the Response Crew Supervisor. The completed report form shall be submitted to the DPW Superintendent as soon as possible within 24 hours of the SSO, for review, correction, amendment, filing and distribution. This form will serve as a basis for the written

Response Report that will be submitted to the NJDEP by the Director or Public Works.

#### **IV. OFFICIAL NOTIFICATION PLAN**

As noted above, the City shall report the SSO to the NJDEP through its Hotline within two (2) hours of receipt of notification. A written report must be submitted to NJDEP within five (5) days, in accordance with N.J.A.C. 7:14A-6.10.

In addition, copies of the report shall be distributed to the Director of Public Works, Supervisor, Licensed Operator and City Engineer.

#### **V. MAINTENANCE AND DISTRIBUTION OF SSORP**

Updates to the SSORP should be made to reflect all changes in statutes, regulations, policies and procedures as may be required to achieve its objectives. Copies of the updated SSORP should be distributed to the Director and Supervisor of Public Works, Licensed Operator and the City Engineer and employees that may be contacted to initiate a response.



City of New Brunswick, Middlesex County, New Jersey  
Sanitary Sewer Overflow Response Plan - Report Form

1 - Date of SSO \_\_\_\_\_

2 - Time of SSO \_\_\_\_\_

3 - Location of SSO \_\_\_\_\_

4 - Details of how SSO was reported \_\_\_\_\_  
\_\_\_\_\_

5 - Time reported to NJDEP Hotline  
and NJDEP Case No. assigned \_\_\_\_\_

6 - Names of Response Personnel

Supervisor: \_\_\_\_\_  
\_\_\_\_\_

7 - Details of the SSO

a. Duration \_\_\_\_\_

hours

b. Estimated volume \_\_\_\_\_

gallons

c. Where the SSO discharged, such  
as directly to a water course or  
indirectly from a storm sewer, etc. \_\_\_\_\_  
\_\_\_\_\_

d. Apparent cause of SSO \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



City of New Brunswick, Middlesex County, New Jersey  
Sanitary Sewer Overflow Response Plan - Report Form

8 - Remedial actions taken, including:

a. Cleanup methods


b. Equipment and supplies used


c. Any necessary by-pass?

Yes      No

d. Any emergency repairs?  
(Provide details)


e. Was cleanup was completed?

Yes      No

9 - Follow-up action to be taken

a. Continued cleanup

Yes      No

b. Investigation into cause of the SSO

Yes      No

10 - Photos included with report?

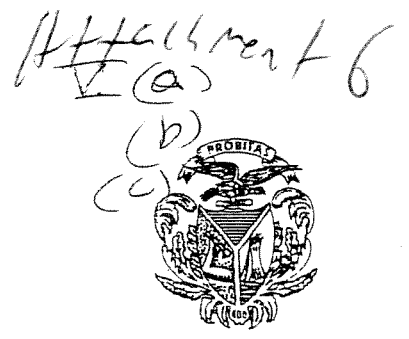
Yes      No

11 - Additional Information




STEVEN M. ZARECKI  
DIRECTOR OF PUBLIC WORKS

MEMORANDUM



To:

Re: Sewer Emergency Response Procedure

Date: January 9, 2007

---

Let this memorandum serve as a reminder that the following flushing procedure is to be followed by Sewer Utility employees when responding to a sewer emergency call:

- when contacted for a sewer emergency (back up) the employee is to respond to the location and determine if there is a problem in the City's main sewer line
- they are to attempt to contact the property owner and inform them of your findings
- the main line is to be flushed whether there is a problem or if it is clear (these courtesy flushes are to take place each time you respond to a call out)
- if there is a problem in the main line it must be cleaned prior to leaving the site for another call unless you are instructed otherwise by a supervisor
- all Sewer Emergency work orders are to be completed and submitted to the Director's office

SMZ:br

c.: K. Nowitzke, Asst. Supt.

**AN ORDINANCE TO AMEND THE REVISED  
GENERAL ORDINANCES OF THE CITY OF NEW BRUNSWICK,  
CHAPTER 13, "SEWER SERVICE SYSTEM"**

**BE IT ORDAINED**, by the City Council of the City of New Brunswick as follows:

**SECTION I**

Revised General Ordinance Section 13.08.340 is amended as follows:

**Section 13.08.340 Schedule A - Schedule of Charges.** The charges of all sewer services furnished by the City of New Brunswick shall be in accordance with the following rates:

a. Residential/Commercial Rates:

(1) Quarterly Rate - per 1,000 cubic feet.

2012	2013	2014
\$41.69	\$42.94	\$44.66

b. Industrial Rates.

(1) Flow - per 1,000,000 gallons per quarter.

2012	2013	2014
\$4,673.83	\$4,814.05	\$5,006.61

(2) BOD - per ton per quarter.

2012	2013	2014
\$663.80	\$683.71	\$711.06

(3) Suspended Solids - per ton per quarter.

2012	2013	2014
\$262.73	\$270.61	\$281.44

**SECTION II**

**SEVERABILITY:**

If any subsection, paragraph or provision of this Ordinance is declared to be invalid by a court of competent jurisdiction, such finding shall not affect the remaining provisions hereof which shall remain in full force and effect.

**SECTION III**

**REPEALER:**

All ordinances inconsistent with the provisions of this Ordinance are repealed to the extent of such inconsistency.

**SECTION IV**

**EFFECTIVE DATE:**

This Ordinance, being an emergency as provided by N.J.S.A. 40:69A-181(b), shall be

effective immediately upon final passage and publication as required by law.

ADOPTED ON FIRST READING:  
DATED: May 16, 2012

COUNCIL PRESIDENT

ADOPTED ON SECOND READING:  
DATED:

COUNCIL PRESIDENT

CITY CLERK

APPROVAL OF THE MAYOR ON THIS DAY OF , 2012.

JAMES M. CAHILL, Mayor

APPROVALS:

CITY ADMINISTRATOR

CITY ATTORNEY  
TKS/lm

VIII  
(d.) - (i)  
Attachment

# **City of New Brunswick Sewer Department Weekly Work Schedule**

**Monday  
Checking Catch Basins & Manholes**

**Tuesday  
Line Flushing / Clean-outs**

**Wednesday  
Checking Catch Basins & Manholes**

**Thursday  
Line Flushing / Clean-outs**

**Friday  
Truck Repairs / Cleaning**

8/14  
VIII (cl.)

Sanitary Sewer Line  
Flushing Schedule

12/09

1. French Street - Bi-weekly  
(Prospect Street to Alexander Street)
2. Suydam Street - monthly  
(Railroad Avenue to Joyce Kilmer Avenue)
3. 18 Roberts Road - monthly
4. Duke Street - monthly  
(Dead End)
5. New Street - monthly  
(Joyce Kilmer to Drift Street)
6. 116 Tunison Road - monthly
7. Dennis Street - monthly
8. Handy Street - monthly  
(between Railroad Avenue and Joyce Kilmer Avenue)
9. Sample Road - monthly
10. Raritan gardens - monthly  
(Hoffman Boulevard)
11. Rt. 27 - and Sanford St. - monthly
12. Parkview Drive / Landing Lane - monthly
13. Hale Street - monthly  
(Lee Avenue to Remsen Avenue)
14. Hale Street - monthly  
(Livingston Ave. - Lee Avenue)
15. So. Talmadge Street - monthly

**STEVEN M. ZARECKI**  
**DIRECTOR OF PUBLIC WORKS**



**MEMORANDUM**

To: Dominic Clementi, Sewer Supervisor  
Re: Flushing of Sanitary Sewer Line (Welton Street / Remsen Avenue)  
Date: November 21, 2012

---

A handwritten signature in blue ink, appearing to be "B", located below the date line.

Add the weekly flushing of Welton Street between the new chamber and Remsen Avenue to your flushing inventory.

---

SMZ:br  
C.: K. Nowitzke  
V. Fair

**STEVEN M. ZARECKI**  
**DIRECTOR OF PUBLIC WORKS**



**MEMORANDUM**

To: Dominic Clementi, Sewer Supervisor

Re: Maintenance Flushing

Date: December 14, 2012

---

Please add the following location to your monthly maintenance flushing schedule:

- Buccleuch Place between Jefferson Ave and the main sewer trunk line.

1/29/14 R-3

Att. 9

City of New Brunswick  
Sewer Utility  
Daily Pump Station Inspection Report

1.) Weston Mills

- station fully operational: 2 pumps are working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

2.) Goodale Circle

- station fully operational: ALL pumps are working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

3.) So. Pennington Road

- station fully operational: ALL pumps are working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

4.) Lyle Brook / Library

- station fully operational: 1 pump is working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

5.) R.R. Ave. / Howard St.

- station fully operational: ALL pumps are working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

6.) College Ave.

- station fully operational: ALL pumps are working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

Supervisor: Don Clement

Date: 1/29/14



City of New Brunswick  
Sewer Utility  
Daily Work Assignment Form

Employee	Project/Work Assignment	Completed (Y/N)
1.) _____	1.) <u>Heckler All Stations</u>	_____
_____	_____	_____
_____	_____	_____
2.) _____	2.) <u>Locammon Sewer</u>	_____
_____	<u>Problem Home</u>	_____
_____	<u>Owner Problem</u>	_____
3.) _____	3.) <u>FLUSH CITY LINE</u>	_____
_____	<u>TOWNSEND ST</u>	_____
_____	<u>WELTON ST</u>	_____
4.) _____	4.) <u>HARRISON DR</u>	_____
_____	_____	_____
_____	_____	_____
5.) _____	5.) _____	_____
_____	_____	_____
_____	_____	_____
6.) _____	6.) _____	_____
_____	_____	_____
_____	_____	_____

• Sewer Emergency Work Orders are to be attached to this form.

Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_

1/29/14

SEWER EMERGENCY  
WORK ORDER

Date: 1/29/14

Address: 20 Cammer

Name: Mrs. Neil

Telephone Number: 846-9528

Time Called In: 12:14 (a.m./p.m.)

Time Assigned: 12:18 (a.m./p.m.)

Action Taken (yes/no): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sewer Back-up Was In: (Check One)

- 1) Property owner's lines X 2) Employee Contacted \_\_\_\_\_  
3) City's sewer lines \_\_\_\_\_

Employee: \_\_\_\_\_ Date: \_\_\_\_\_

Response Time: \_\_\_\_\_

White Copy - Sewer Dept.

Yellow Copy - Office

1/9/14 R3

Attachment 9

City of New Brunswick  
Sewer Utility  
Daily Pump Station Inspection Report

1.) Weston Mills

- station fully operational: 2 pumps ARE WORKING
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

2.) Goodale Circle

- station fully operational: ALL pumps ARE WORKING
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair Completed: \_\_\_\_\_ Date: \_\_\_\_\_

3.) So. Pennington Road

- station fully operational: ALL pumps ARE WORKING
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

4.) Lyle Brook /Library

- station fully operational: 1 pump is working
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

5.) R.R. Ave. / Howard St.

- station fully operational: ALL pumps ARE WORKING
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

6.) College Ave.

- station fully operational: ALL pumps ARE WORKING
- equipment out of service: \_\_\_\_\_
- repair scheduled: \_\_\_\_\_ Date: \_\_\_\_\_
- repair completed: \_\_\_\_\_ Date: \_\_\_\_\_

Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_

Dom Clemente  
1/9/14 R3

1/9/14 R3

City of New Brunswick  
Sewer Utility  
Daily Work Assignment Form

Employee	Project/Work Assignment	Completed (Y/N)
1.) _____	1.) <u>CHECKED ALL STATIONS</u>	_____
_____	_____	_____
_____	_____	_____
2.) <u>Boone</u>	2.) <u>FLUSH CITY LINES</u>	_____
<u>CHARLES J.</u>	<u>HAMPDEN RD</u>	_____
_____	<u>HANDYKE</u>	_____
_____	<u>SEA NEW LENO</u>	_____
3.) _____	3.) <u>TAMING DLE ST</u>	_____
_____	<u>FOURTH ST</u>	_____
_____	<u>35 WILSON ST</u>	_____
_____	<u>HARRISON KICHMOND</u>	_____
4.) _____	4.) <u>HAVERY ST</u>	_____
_____	<u>ON K WILSON ST</u>	_____
_____	_____	_____
5.) _____	5.) _____	_____
_____	_____	_____
_____	_____	_____
6.) _____	6.) _____	_____
_____	_____	_____
_____	_____	_____

• Sewer Emergency Work Orders are to be attached to this form.

Supervisor: \_\_\_\_\_

Date: \_\_\_\_\_

1/9/14